Table of Contents: Volume 10 (1998)

Number 1

Fitting Circles and Spheres to Coordinate Measuring Machine Data ..... *Saul I. Gass, Christoph Witzgall, and Howard H. Harary* 5

Optimal Sequencing Rules for Some Large-Scale Flexible Manufacturing Problems Under the Manhattan and Chebychev Metrics ..... *Gilbert Laporte, Luís Lopes, and François Soumis* 27

Flexibility and Pricing Decisions for High-Volume Products with Short Life Cycles ..... *Richard M. Franza and Cheryl Gaimon* 43

The Application and Evaluation of Banker's Algorithm for Deadlock-Free Buffer Space Allocation in Flexible Manufacturing Systems ..... *Mark Lawley, Spyros Reveliotis, and Placid Ferreira* 73

Contributing Authors 101

Instructions to Authors 105

Number 2

Diagnostics in Disassembly Unscrewing Operations ..... *Daniel W. Apley, Günther Seliger, Lorenz Voit, and Jianjun Shi* 111

Cyclic Scheduling of Operations for a Part Type in an FMS Handled by a Single Robot: A Parametric Critical-Path Approach ..... *Vladimir Kats and Eugene Levner* 129

A Heuristic Search Approach Using Approximate Solutions to Petri Net State Equations for Scheduling Flexible Manufacturing Systems ..... *Mu Der Jeng and Shih Chang Chen* 139

Logical Cell Formation in FMS, Using Flexibility-Based Criteria ..... *Vivekanand P. Kochikar and T.T. Narendran* 163

Contributing Authors 183

Instructions to Authors 187

Number 3

Special Issue on Information-Based Manufacturing
Guest Editor: Michael J. Shaw

Introduction to the Special Issue on Information-Based Manufacturing ..... *Michael J. Shaw* 195

Reengineering the Order Fulfillment Process in Supply Chain Networks ..... *Fu-Ren Lin and Michael J. Shaw* 197

Integrated Modeling Framework for Manufacturing Systems: A Unified Representation of the Physical Process and Information System ..... *Hee Won Kang, Jong Woo Kim, and Sung Joo Park* 231

On the Dependability Design of Manufacturing Information Systems ..... *António Rocha Quintas and José António Faria* 267

Object-Oriented Modeling for Flexible Manufacturing Systems ..... *Alexander W. Booth* 301
Contributing Authors 315
Instructions to Authors 317

Number 4

Special Issue on Manufacturing Flexibility
Guest Editors: Saifallah Benjaafar and Devanath Tirupati

Introduction to the Special Issue on Manufacturing Flexibility ..... *Saifallah Benjaafar and Devanath Tirupati* 323
Definition and Classification of Manufacturing Flexibility Types and Measures ..... *John P. Shewchuk and Colin L. Moodie* 325
Machine Sharing in Manufacturing Systems: Total Flexibility versus Chaining ..... *Mehdi Sheikhzadeh, Saifallah Benjaafar, and Diwakar Gupta* 351
Performance Comparison of Some Classes of Flexible Flow Shops and Job Shops ..... *Chung-Yee Lee and George L. Vairaktarakis* 379
Setting Single-Period Optimal Capacity Levels and Prices for Substitutable Products ..... *John R. Birge, John Drogosz, and Izak Duenyas* 407
Contributing Authors 431
Instructions to Authors 433